

## MECHANICAL DATA

Bulb . . . . .	T-6 1/2
Base . . . . .	E9-1, Miniature Button 9-Pin
Outline . . . . .	6-2
Basing . . . . .	9A
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

## ELECTRICAL DATA

### HEATER CHARACTERISTICS

Heater Voltage <sup>1</sup> . . . . .	12.6 Volts
Heater Current . . . . .	150 Ma
Heater-Cathode Voltage (Design Center Values) . . . . .	
Heater Positive with Respect to Cathode . . . . .	30 Volts Max.
Heater Negative with Respect to Cathode . . . . .	30 Volts Max.

### DIRECT INTERELECTRODE CAPACITANCES

	Section 1 <sup>2</sup>		Section 2	
	Shielded <sup>3</sup>	Unshielded	Shielded	Unshielded
Grid to Plate . . . . .	1.5	1.5	1.5	1.5 $\mu\text{f}$
Input: g to (h+k) . . . . .	1.8	1.6	1.8	1.6 $\mu\text{f}$
Output: p to (h+k) . . . . .	2.0	0.4	2.0	0.32 $\mu\text{f}$

### RATINGS (Design Center Values)

Plate Voltage . . . . .	30 Volts	Max.
Cathode Current . . . . .	15 Ma	Max.
Grid Circuit Resistance		
Fixed Bias . . . . .	0.25 Megohm	Max.
Cathode Bias . . . . .	1.0 Megohm	Max.

### CHARACTERISTICS AND TYPICAL OPERATION

#### Class A<sub>1</sub> Amplifier—Each Section

Plate Voltage . . . . .	12.6 Volts
Grid Voltage . . . . .	0 Volts
Plate Current . . . . .	1.0 Ma
Transconductance . . . . .	1600 $\mu\text{mhos}$
Amplification Factor . . . . .	20
Plate Resistance (Approx.) . . . . .	12,500 Ohms
Grid Voltage for $I_b = 10 \mu\text{a}$ (Approx.) . . . . .	-1.5 Volts

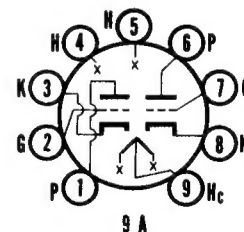
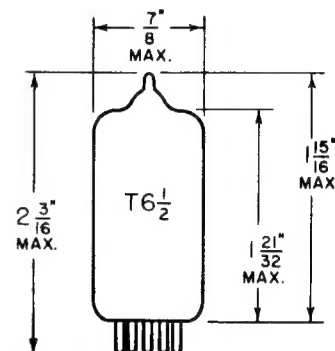
### NOTES:

1. This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
2. Section 1 connects to pins 6, 7 and 8. Section 2 connects to pins 1, 2 and 3.
3. External shield No. 315 connected to cathode of section under test.

## QUICK REFERENCE DATA

The Sylvania Type 12U7 is a general purpose, medium  $\mu$ , dual triode, having separate cathodes for each section.

It is designed for operation where the heater and plate voltages are supplied directly from a 12 volt automotive storage battery.



SYLVANIA ELECTRIC  
PRODUCTS INC.

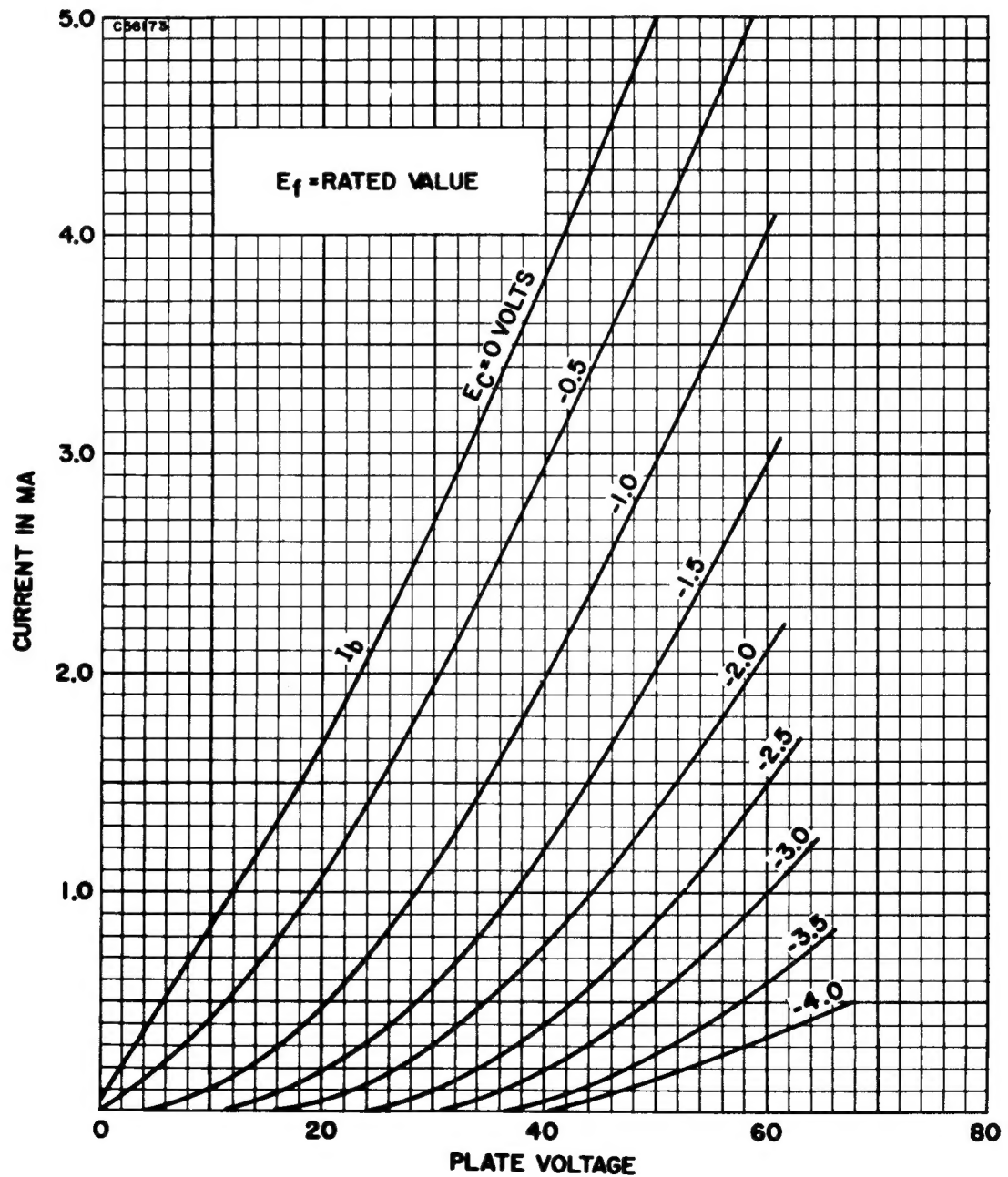
RADIO TUBE DIVISION  
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AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

